



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

SCIENTIFIC BOOKS

THE CONTROL OF HUNGER IN HEALTH AND DISEASE

By ANTON JULIUS CARLSON, *Professor of Physiology at the University of Chicago.*

A summary of the work of the stomach, with special reference to hunger and appetite, carried on at the Hull Physiological Laboratory, at the University of Chicago during the last four years. 219 pages. Price \$2.00 net.

University of Chicago Press, Chicago, Ill.

STATE SANITATION

By GEORGE CHANDLER WHIPPLE, *Professor of Sanitary Engineering at Harvard University. Member of the Public Health Council, Massachusetts State Department of Health.*

The primary object of this book is to set forth the past work of the Massachusetts State Board of Health, so that it may be known by the people of the present generation. 377 pages.

The Harvard University Press, Cambridge, Mass.

PRINCIPLES OF OCEAN TRANSPORTATION

By EMORY R. JOHNSON, PH.D., Sc.D., *Professor of Transportation and Commerce of the University of Pennsylvania*, and GROVER C. HUEBNER, PH.D., *Assistant Professor of Transportation and Commerce at the University of Pennsylvania.*

This book embodies all the principal changes that have recently occurred in methods of ocean transportation throughout the world. Illustrated with half-tones, maps and diagrams. 513 pages.

D. Appleton and Company, New York City

DESCRIPTIVE MINERALOGY

By WILLIAM SHIERLEY BAYLEY, *Professor of Geology at the University of Illinois*

A text-book for college classes, designed to give the student a comprehensive view of modern mineralogy, rather than a detailed knowledge of many minerals. 268 illustrations. 542 pages.

D. Appleton and Company, New York City

INORGANIC CHEMISTRY

By ALEXANDER SMITH, *Professor of Chemistry in Columbia University.*

A thorough treatise of inorganic chemistry for students beginning this study in college, university or professional schools. Third edition. 925 pages.

The Century Co., New York City

SOIL PHYSICS AND MANAGEMENT

By J. G. MOSIER, B.S., *Professor of Soil Physics, University of Illinois*, and A. F. GUSTAFSON, M.S., *Assistant Professor of Soil Physics, University of Illinois.*

The publication of this book fulfils three purposes: First, a text-book for agricultural students; second, a reference book for the practical farmer; and, third, an aid to the landowner who desires information in the management of his land. 202 illustrations. 442 pages.

J. B. Lippincott and Company, Philadelphia, Pa.

FIELD BOOK OF INSECTS

By FRANK E. LUTZ, *Associate Curator, Department of Invertebrate Zoology, American Museum of Natural History*

A popular treatise of the more common insects, with special reference to those of the Northeastern United States. 800 illustrations. 409 pages. Price, \$2.50 net.

J. P. Putnam's Sons, New York City

A TEXT-BOOK OF PRECIOUS STONES

By FRANK B. WADE, B.S., *Head of the Department of Chemistry, Shortridge High School, Indianapolis, Ind.*

This book presents, in as natural an order as possible, the fundamental principles and methods in use for identifying precious stones. 318 pages. Price, \$2.00 net.

J. P. Putnam's Sons, New York

COMPARATIVE ANATOMY OF VERTEBRATES

By J. S. KINGSLEY, *Professor of Zoology at the University of Illinois*

A text-book of comparative anatomy, laying special emphasis on the embryological side of the study. Second edition. 406 illustrations. 449 pages. Price, \$2.00 net.

P. Blakiston's Son and Company, Philadelphia, Pa.

TOPOGRAPHY AND STRATEGY IN THE WAR

By DOUGLAS WILSON JOHNSON, *Associate Professor of Physiology, Columbia University.*

This book treats the relationship between inanimate nature and the science of war and gives a picture of the different war fronts in order that the military campaigns of the war may be followed with greater ease. 211 pages. \$1.75 net.

Henry Holt & Co., New York

GENERAL ZOOLOGY

By A. S. PEARSE, *Associate Professor in the University of Wisconsin.*

This book has been written to be read by students of eighteen to twenty years of age. With this idea in view both the illustrations and text have been prepared more in the style of a natural history than of an anatomy. 366 pages.

Henry Holt & Co., New York

HISTORY OF MEDICINE

By FIELDING H. GARRISON, *Principal Assistant Librarian, Surgeon General's Office, Washington, D. C.*

This volume has been written with a definite intention of stimulating the student to do his own thinking and research, by interesting him in the subject from the start. 905 pages. Cloth \$6.50 net.

W. B. Saunders Co., Philadelphia, Pa.

A SHORT HISTORY OF SCIENCE

By W. T. SEDGWICK and H. W. TYLER of the *Massachusetts Institute of Technology.*

This volume seeks to furnish the student and the general reader with a concise account of the origin of our scientific knowledge and scientific methods. 474 pages. Price \$2.50 net.

The Macmillan Co., New York

EVERYMAN'S CHEMISTRY

By ELLWOOD HENDRICK, New York City.

This book aims to give to the average man a general realization of the tremendous importance of chemistry and its application in actual life. 373 pages.

Harper & Brothers, New York

SCIENCE PROGRESS

A QUARTERLY REVIEW OF SCIENTIFIC THOUGHT, WORK AND AFFAIRS

EDITED BY SIR RONALD ROSS, F.R.S., D.Sc., M.D., Etc.

SCIENCE PROGRESS owes its origin to an endeavor to found a scientific journal containing original papers and summaries of the present state of knowledge in all branches of science. The necessity for such a journal is to be found in the fact that, with the specialization which necessarily accompanies the modern development of scientific work and thought, it is increasingly difficult for even the professional man of science to keep in touch with the progress achieved and the trend of thought in subjects other than those in which his immediate interests lie. This difficulty is felt by teachers and students in schools and colleges, and by the general educated public interested in scientific questions. SCIENCE PROGRESS claims to have filled this want.

Published early in January, April, July, and October, by John Murray, 50a, Albemarle Street, London, W., England. Annual Subscription, \$4.80 (including postage). Single numbers \$1.20 (postage 10 cents).

The Philippine Journal of Science

ALVIN J. COX, M.A., Ph.D., General Editor

Published by the Bureau of Science
of the Government of the
Philippine Islands

A Periodical Devoted to the Scientific and Commercial
Interests of the Tropics

The Journal, now in its twelfth volume, is issued in four sections. Each section consists of six numbers a year, in separately paged and indexed, and is a complete publication in itself.

YEARLY SUBSCRIPTION RATES

Section A. Chemical and Geological Sciences and the Industries.....	\$2.00
Section B. Tropical Medicine.....	3.00
Section C. Botany.....	2.00
Section D. General Biology, Ethnology and Anthropology.....	2.00
The four sections to one subscriber.....	7.00

A complete list of the publications of the Philippine Bureau of Science and a sample copy of the Philippine Journal of Science will be sent upon request.

Subscriptions and orders for publications should be sent to

THE BUSINESS MANAGER

Philippine Journal of Science

Bureau of Science

MANILA, P. I.

The Microscope

12th Edition, Published April 10, 1917

Re-Written and largely Re-Illustrated

By SIMON HENRY GAGE of Cornell University

Postpaid \$3.00

COMSTOCK PUBLISHING CO., Ithaca, N. Y.

JULIEN'S POWER LATHES

COMPACT—ACCURATE—DURABLE

Use of Geologists, Mineralogists, etc., in SLICING and POLISHING all hard substances, rock, etc., and in preparation of MICROSCOPIC THIN SECTIONS.

GUSTAVUS D. JULIEN

3 Webster Terrace

NEW ROCHELLE, N. Y.

ROMEIKE'S

PRESS CLIPPINGS

are now an absolute necessity for every scientific man. By methodical searching through the most important papers and periodicals published in this country and abroad we are able to supply you at short notice with information on any subject which perhaps you would be unable to find yourself in libraries or reference books after spending days or even weeks at such a task. Write for further information.

HENRY ROMEIKE, Inc.

106-110 Seventh Avenue

New York City

Sargent's Handbook of American Private Schools

A Standard Annual of Reference

Of utmost importance to all interested in Secondary Education. Describes critically and discriminately the Private Schools, their merits and demerits, each under its appropriate classification.

Comparative Tables give the relative cost, size, age, special features, etc.

Introductory Chapters tell in a general way of interesting developments in the educational year,—“Educational Reconstruction in Other Warring Countries”, “Experimental and Modern Schools”, “Recent Development of the Country Day School”, “Recent Educational Literature”, “The Year’s Advance in Education”, “War Activities of the Schools”, “History of Military Education”, etc.

4th edition, 1918, revised and enlarged, 722 pages, \$2.50.

PORTER E. SARGENT
50 Congress St., Boston, Mass.

Archives of Psychology

No. 27. A Statistical Study of Eminent Women. Cora Sutton Castle. Pp. 90. 80 cents; cloth, \$1.05.

No. 28. The Mental Capacity of the American Negro. Marion J. Mayo. Pp. 70. 60 cents; cloth, 85 cents.

No. 29. Experimental Studies in Judgment. H. L. Hollingworth. Pp. 119. \$1.25; cloth, \$1.50.

No. 30. The Psychological Researches of James McKeen Cattell; A Review by Some of his Pupils. Pp. 101. \$1.00; cloth, \$1.25.

No. 31. Fatigue and Its Effect upon Control. Isaac Emory Ash. Pp. 61. 60 cents; cloth, 85 cents.

No. 32. The Transfer Effects of Practice in Cancellation Tests. Melvin Albert Martin. Pp. 68. 60 cents; cloth 85 cents.

No. 33. The Intellectual Status of Children Who are Public Charges. J. L. Stenquist, E. L. Thorndike and M. R. Trabue. Pp. 52. 50 cents; cloth, 75 cents.

No. 34. The Relation of Quickness of Learning to Retentiveness. Darwin Oliver Lyon. Pp. 58. 50 cents; cloth 75 cents.

No. 35. The Overcoming of Distraction and Other Resistances. John J. B. Morgan. Pp. 78. 75 cents; cloth, \$1.

SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE

FRIDAY, FEBRUARY 7, 1919

The American Association for the Advancement of Science:—

Variable Stars: Professor Henry Norris Russell.
Charles Rochester Eastman: Professor Bashford Dean.
Scientific Events:

The Forest Service in War Times; Deaths from Influenza and Pneumonia; Salt Requirements of Representative Agricultural Plants; Meeting of the American Institute of Mining Engineers.

Scientific Notes and News.

University and Educational News.

Discussion and Correspondence:—

On Monkeys trained to pick Coco Nuts: Dr. E. W. Gudger.
Hay Fever and a National Flower: Dr. Horace Gunthorp.

Scientific Books:—

Tolman on the Theory of Relativity of Motion: Dr. H. B. Phillips.

Special Articles:—

On explaining Mendelian Phenomena: Loye Holmes Miller.
Silixite, a New Rock Name: Dr. William J. Miller.

The Western Society of Naturalists.

The Tennessee Academy of Science: Dr. Roscoe Nunn.

Annual Subscription \$5.00

FRIDAY, FEBRUARY 14, 1919

Edward Charles Pickering: Professor Henry Norris Russell.

The American Association for the Advancement of Science:—
Some Recent Contributions to the Physics of the Air: Dr. W. J. Humphreys.

Scientific Events:—

Memorial to Lewis Henry Morgan; The British Dye Industry; Distribution of the Membership of the American Chemical Society.

Scientific Notes and News.

University and Educational News

Discussion and Correspondence:—

Applied Psychology: Professor E. B. Titchener. The Publication of Isis: Professor George Sarton. A Steady Calendar: Professor W. M. Davis.

Scientific Books:—

Loeb on Forced Movements, Tropisms and Animal Conduct
Dr. W. J. Crozier.

The Geological Society of America: Dr. Edmund Otis Hovey.

The American Phytopathological Society: Dr. C. L. Shear.

Single Numbers 15 cents

Published every Friday by

THE SCIENCE PRESS

LANCASTER, PA.

GARRISON, NEW YORK.

Sub-Station 84: New York

SCHOOL AND SOCIETY

A weekly journal covering the field of education in relation to the problems of American democracy

Edited by J. McKEEN CATTELL

SATURDAY, JANUARY 25, 1919

Some Outstanding Educational Problems in Hawaii: Vaughan MacCaughey.

Teacher Training in Colleges: Joseph T. Williams.

Educational Events:

Higher Education for British Soldiers; The Salaries of Women Teachers in New York City; The Recognition of Scholarship at Cornell University; Harvard Liberal Club of Boston; Enrollment of Teachers in the State Association of the United States.

Educational Notes and News.

Discussion and Correspondence:

Two Inaugural Addresses: Charles Knapp.

Quotations:

The Organization of the Teaching Profession.

Books and Literature:

Geography and Reconstruction in Education.

Educational Research and Statistics:

Greek and Latin as Requirements for the A.B. Degree in American Colleges and Universities: Gregory D. Walcott.

Societies and Meetings:

The Annual Meeting of The American Association of University Professors.

SATURDAY, FEBRUARY 8, 1919

Proposed Revision of Secondary-School Subjects looking to more Effective Education in Personal Culture and Good Citizenship: David Snedden.

War's Effects on the High Schools of Connecticut: Morton Snyder.

The Death of Professor Heck: I. F. Lewis.

Educational Events:

Educational Grants for British Service Men; Work of the Children's Bureau; Division of Educational Extension of the Bureau of Education; The Reserve Officer's Training Corps.

Educational Notes and News.

Discussion and Correspondence:

Class and Laboratory Hours from the Standpoint of the Teacher: J. N. Swan. Opinion vs. Opinion: C. O. Davis.

Quotations:

Freedom of Speech in the New York City Schools.

Proposed Washington-Lafayette School for Boys in France: Henry Fairfield Osborn.

Educational Research and Statistics:

A Scale for Measuring Handwriting: Daniel Starch.

SATURDAY, FEBRUARY 1, 1919

Americanization: William L. Ettinger.

Can Technical Education be Ameliorated? Wm. S. Franklin.

Educational Events:

Educational Reconstruction in Germany; The Educational Program for the American Expeditionary Force; Sub-stations of the Bureau of Education; The Construction of School Buildings as affected by the War; Officers' Training Units; Freedom of Teaching in the New York City Schools.

Educational Notes and News.

Discussion and Correspondence:

One Mal-adjustment of College Work—a Judgment on a Certain Method of Teaching: L. W. Webb.

Quotations:

Teachers' Salaries and the Public; The Enrolment at the Massachusetts Institute of Technology.

Supplementary Statement concerning the Plan of Contributory and Compulsory Annuities proposed by the Carnegie Foundation: Arthur O. Lovejoy, Harlan F. Stone.

Educational Research and Statistics:

A Scale for Measuring Handwriting: Daniel Starch.

SATURDAY, FEBRUARY 15, 1919

Tests of Intelligence; Reliability, Significance, Susceptibility to Special Training and Adaptation to the General Nature of the Task: Edward L. Thorndike.

The Status of Mathematics and Mathematical Instruction during the Colonial Period: Herbert Kimmel.

Educational Events:

Work of the School of Industrial Hygiene of Harvard University; Army Psychologists for City Public School Work; Association of American Agricultural Colleges and Experimental Stations and the Officer's Reserve Training Corps.

Educational Notes and News.

Discussion and Correspondence:

Toward the Discovery of Native Talent: Dr. Benjamin C. Gruenberg.

Quotations:

School Lunches in New York City; Equal Pay for Equal Work.

Educational Sociology in City Training Schools: E. George Payne.

Educational Research and Statistics:

Personnel of a College Faculty: E. Leigh Mudge.

Societies and Meetings:

Program of the General Sessions of the Chicago Meeting of the Department of Superintendence.

\$3.00 a Year

Published Weekly

10 Cents a Copy

THE SCIENCE PRESS

Lancaster, Pa.

Garrison, N. Y.

New York City: Sub-Station 84

The Scientific Monthly

Entered as second-class matter October 1, 1918, at the post-office of Lancaster, Pennsylvania,
under the Act of March 3, 1879

CONTENTS OF THE JANUARY NUMBER

Weather Controls Over the Fighting During the Autumn of 1918. Professor Robert DeC Ward.
Social Amelioration and Eugenic Progress. Professor S J. Holmes
The Localization of Industry. Dr. Malcolm Keir,
The North Slesvig or Dano-German Question. Professor C. C. Eckhardt.
The Democratic Background of Chinese Culture. Benoy Kumar Sarkar.
Principles and Problems of International Relations. Dr. P. G. Nutting.
Adaptation in Bone Architecture Professor R. M. Strong.
Fishing in Venezuela. Professor A S. Pearse.
The Progress of Science:
The Convocation-week Meeting of the American Association for the Advancement of Science; American Experts at the Peace Conference; Use of the Metric System in the United States; Scientific Items.

CONTENTS OF THE FEBRUARY NUMBER

Science and the After-War Period. Dr. George K. Burgess.
Entomology and the War. Dr. L. O. Howard.
The New Step in Applied Science. Professor George T. W. Patrick.
A Botanical Trip to Mexico. Professor A. S. Hitchcock.
Educational Publicity. Professor Ulysses G. Weatherly.
Motives for the Cultivation of Mathematics. Professor R. D. Carmichael.
Insects Which Attract Public Attention. Professor Harry B. Weiss.
The Progress of Science:
The Work of the American Association for the Advancement of Science; The Interallied International Scientific Organization; Scientific Items.

 The MONTHLY will be sent to new subscribers for six months for One Dollar.

SUBSCRIPTION ORDER

To THE SCIENCE PRESS,

Publishers of THE SCIENTIFIC MONTHLY,

Sub-Station 84, New York City.

Please find enclosed check or money order for three dollars, subscription to THE SCIENTIFIC MONTHLY for one year, beginning March, 1919.

Name.....

Address.....

Single Number 30 Cents

Yearly Subscription \$3.00

THE SCIENCE PRESS

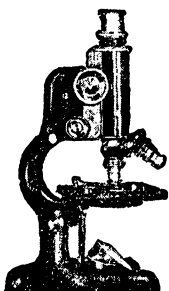
Lancaster, Pa.

Garrison, N. Y.

Sub-Station 84; New York

Bausch and Lomb Microscopes

The Accepted Standard



FS2 Microscope;
\$40.75

are again in the market—backed by the prestige which attaches to successful war service in any significant capacity.

Our release from this service is of course gradual. As the demands made upon us by the government are lessened from month to month, however, we are enabled to increase deliveries to our other patrons.

Write for complete catalog of our revised microscope line and inform us regarding your requirements.

Bausch & Lomb Optical Co.

408 ST. PAUL ST., ROCHESTER, N. Y.

NEW YORK WASHINGTON CHICAGO SAN FRANCISCO

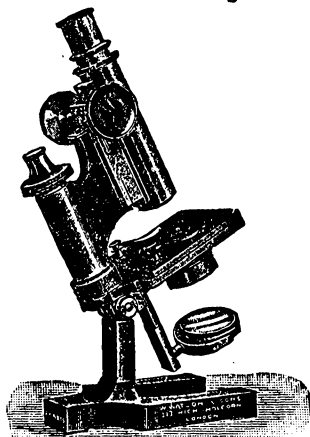
Leading American Makers of Photographic Lenses, Microscopes, Projection Apparatus, (Balopticons), Ophthalmic Lenses and Instruments, Photomicrographic Apparatus, Range Finders and Gun Sights for Army and Navy, Searchlight Reflectors, Stereo-Prism Binoculars, Magnifiers, and Other Hig-Grade Optical Products

W. Watson & Sons, Ltd.

BRITISH MADE

STUDENTS MICROSCOPES

The "Praxis" Stand is the Student's model par excellence. Made throughout with the same accuracy



and finish as on Watson's highest priced Stands.

A few special points are:—Standardization so that additional movements may be fitted as required. Lever fine adjustment. Constructed of two solid castings and indestructible. All parts are slotted and sprung to compensate for wear.

Price for Stand only \$18.90.

Catalogue of Microscopes and Accessories for all purposes gratis on request from

W. WATSON & SONS, Ltd.

Established 1837

313, High Holborn, London, England

Refracting and Reflecting Astronomical Telescopes

Standard and Portable

Visual and Photographic OBJECTIVES

Computed by our associate

Dr. F. R. MOULTON

(Chicago University)

OBSERVATORIES

Specula, Planes, Eyepieces, etc.

Photographs and Circulars on request

LOHMANN BROS.

GREENVILLE, OHIO :: :: :: U. S. A.

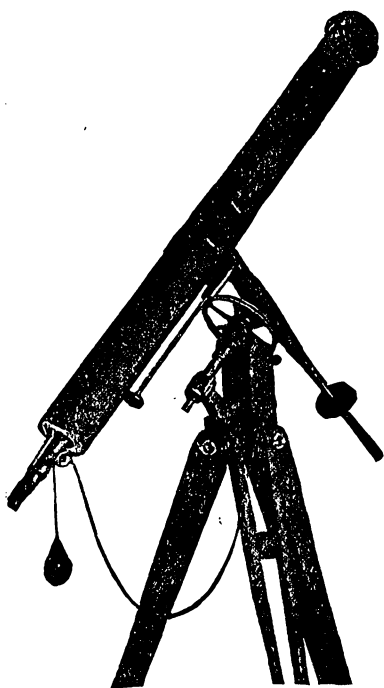


Illustration shows 5-in. with
pneumatic clock